

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 January 2002 (10.01.2002)

PCT

(10) International Publication Number
WO 02/03317 A1

(51) International Patent Classification⁷: **G06K 11/18**,
G06F 3/033

(21) International Application Number: PCT/NO00/00114

(22) International Filing Date: 4 July 2000 (04.07.2000)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant and

(72) Inventor: PEDERSEN, Steinar [NO/NO]; Elgtråkket 48,
N-1383 Asker (NO).

(81) Designated States (national): AL, AM, AT, AU, AZ, BA,
BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES,

FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP,
KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW.

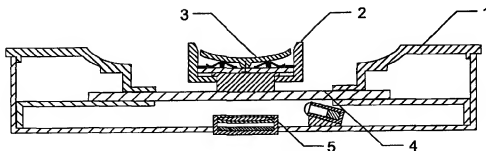
(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CURSOR CONTROL UNIT WITH PATTERNED GUIDE PLATE



(57) Abstract: The invention represents a control unit used for positioning and control of PC cursors and other objects, where the device incorporates a control module comprising a control button that is mounted on a horizontally sliding guide plate; where the motion or position of the control module in the X-Y plane is detected by an opto-electronic sensor means encompassing a light source, a photo-sensor matrix and a processor that can interpret signals useful from the matrix and transform them into control signals useful for control of movements and location of said cursor or object on a display or PC screen; where the opto-electronic sensor is capable of detecting X-Y motions of the control module due to the photo-sensor matrix capturing sequential pictures of the lower side of the guide plate which is being illuminated by diffuse light.



WO 02/03317 A1